# DATA COLLECTION ON MOBILE PLATFORM FOR SMALL BUSINESS

Jonathan Haller, GIS Specialist

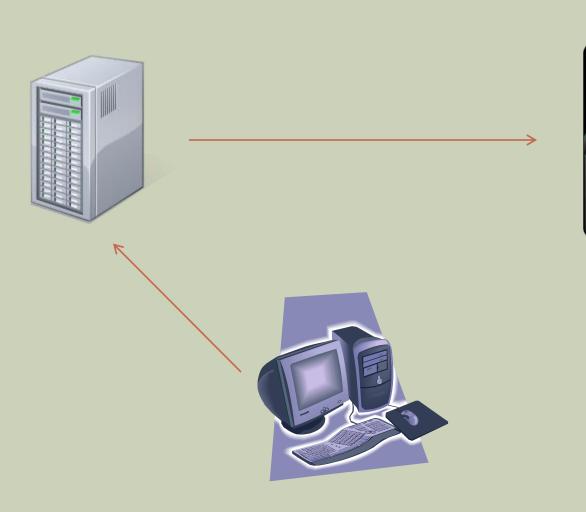
## **OVERVIEW**

- Applications
- Components
- Operating System Availability
- Office Side Workflow
- Field Workflow
- Interaction with Cloud Server
- Concerns and Limitations

# **APPLICATIONS**

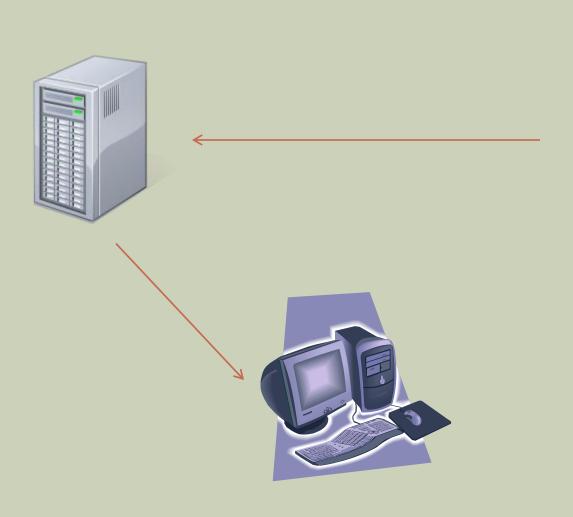
- Urban Consulting
- Municipal Parks
- Private and Public Utilities
- Property Crime
- Property Management
- Public Hobby/Art
- Crowd Sourcing
- Emergency Services
- Tourism

# COMPONENTS





# COMPONENTS





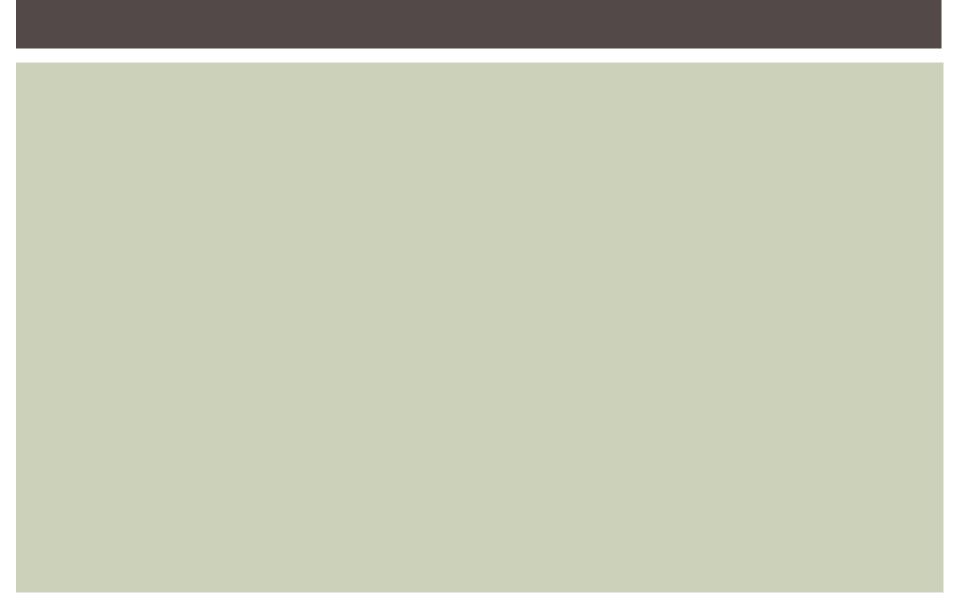
# **SOFTWARE TYPES**

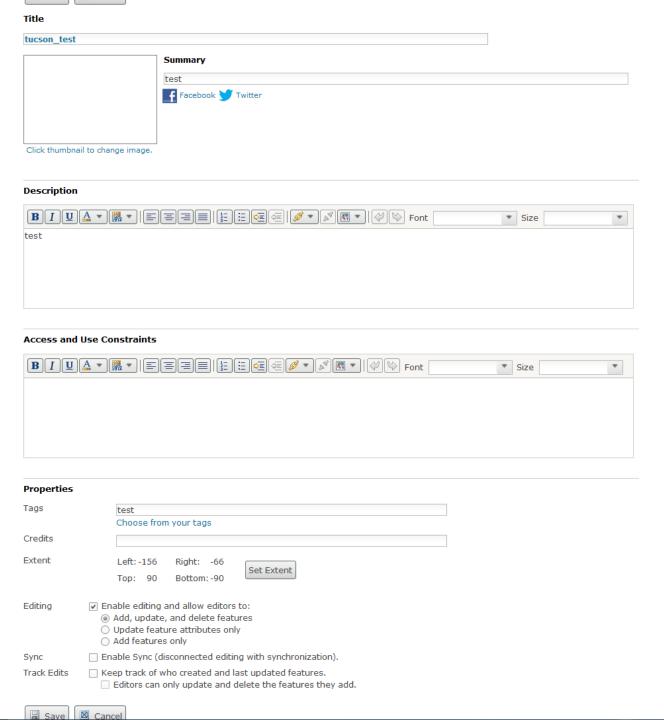
- ArcGIS
  - Allows limited interaction to ArcGIS Online account
  - Allows mobile editing
- Collector
  - Mobile editing only

## **OPERATING SYSTEM AVAILABILITY**

- iOS
  - ArcGIS
  - Collector
  - Not optimized for iPad
- Android
  - ArcGIS
  - Collector
- Windows Mobile
  - ArcGIS
    - Currently has offline use
- Available on other platforms

# **OFFICE SIDE WORKFLOW**





### tucson\_test



#### **Access and Use Constraints**

#### Layers

tucson\_test 🗈

#### **Properties**

Shared with Organization

Tags test

Credits

Size 44 KB

Extent Left: -156 Right: -66

> Top: 90 Bottom: -90

Editors can add, update, and delete features. Editing

Disabled Sync Disabled Track Edits

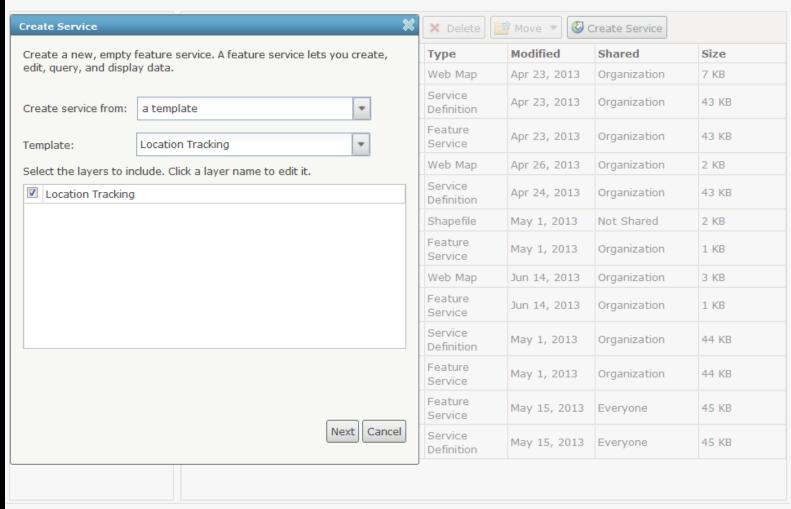
#### Comments (0)

Add a Comment

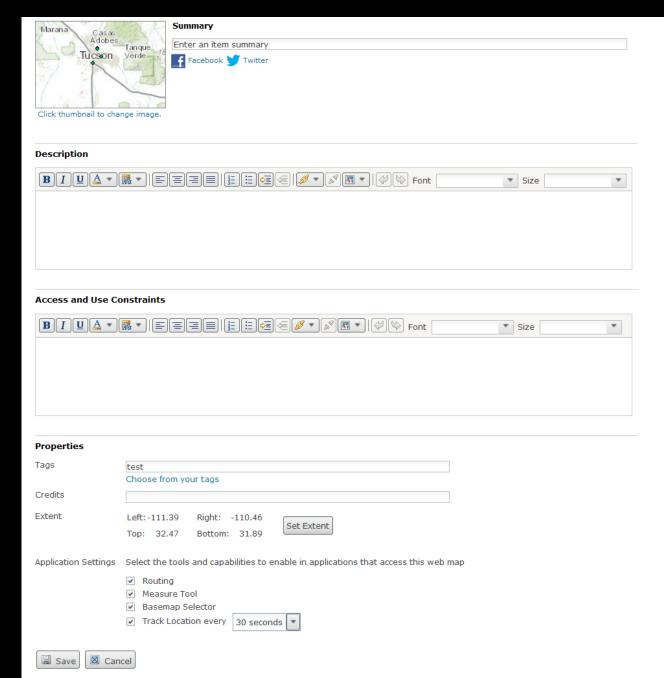
**Publish Comment** 

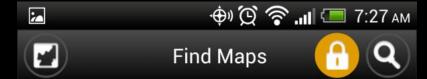
HOME GALLERY MAP

## My Content



GROUPS







Tierra Right of Way Services



My Groups



My Maps



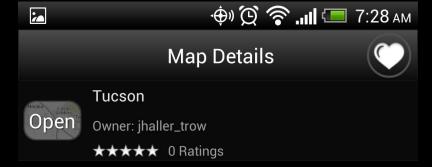
My Favorites



Gallery



**GIS Connections** 



## Summary

## Description

## **Map Contents**

tucson\_test2 - tucson\_test

tucson\_test

field\_recording - test

**Topographic** 

## Tags

test

## Modified

May 15, 2013 3:17:04 PM

## Map Extent

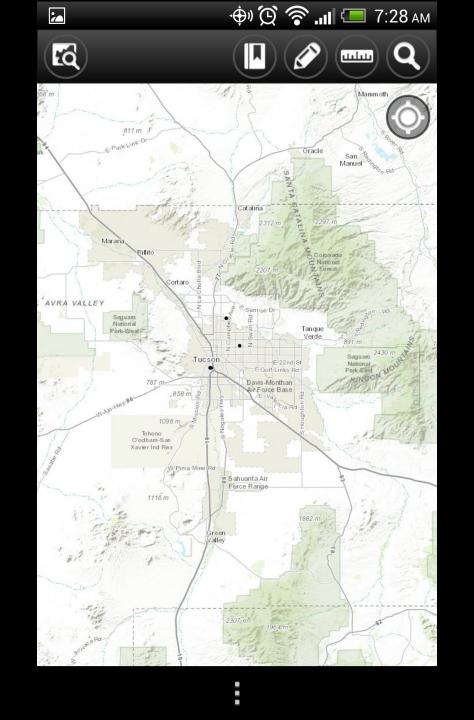
Left -111.39

Right -110.46

Top 32.47

Bottom 31.89







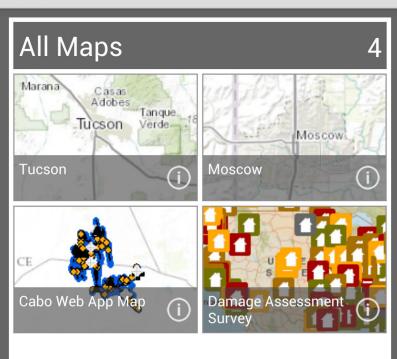


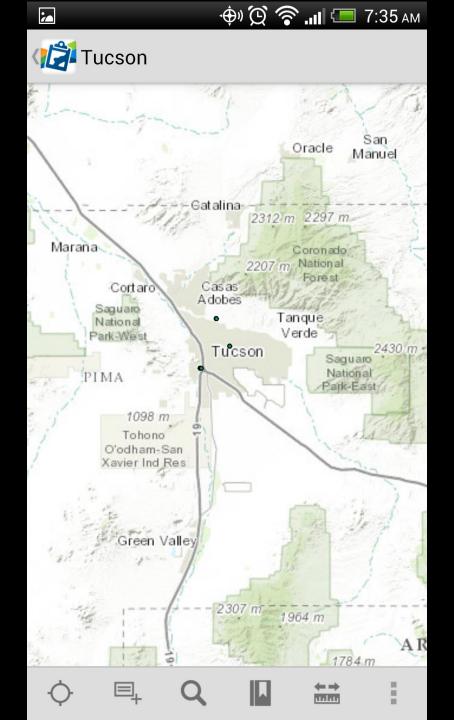




























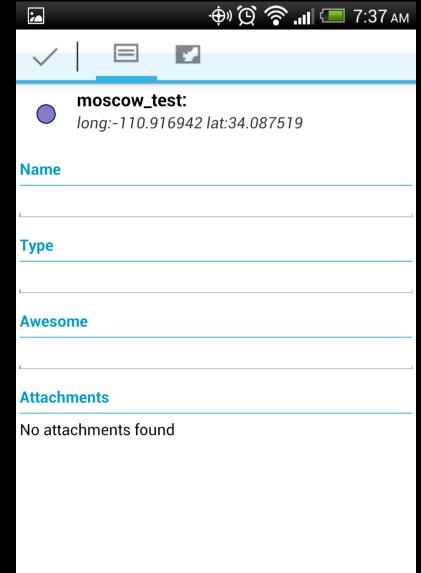
















# INTERACTION WITH CLOUD

- Two modes
  - Offline
    - Pre-field Download
    - Delayed Field Upload
    - No connection needed
  - Online
    - Faster Mobilization
    - Up-to-date Base Maps
    - Realtime Upload

# **CONCERNS AND LIMITATIONS**

- Concerns
  - Privacy
    - Spatial positioning
    - Photographic
  - Base and client data
  - Incidental documentation
- Limitations
  - Short battery life
  - Large data consumption
  - GPS and Cell Network (improving daily)

# QUESTIONS AND CONTACT INFO

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